

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/941,095
Source: OIPE
Date Processed by STIC: 11/29/2005

ENTERED



OIPE

RAW SEQUENCE LISTING

DATE: 11/29/2005

PATENT APPLICATION: US/09/941,095

TIME: 15:58:42

Input Set : N:\Crif3\RULE60\09941095.raw

Output Set: N:\CRF4\11292005\I941095.raw

SEQUENCE LISTING

```

1 (1) GENERAL INFORMATION:
2   (i) APPLICANT: BROW, MARY ANN D.
3         LYAMICHEV, VICTOR I.
4         OLIVE, DAVID M.
5   (ii) TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF
6         PATHOGENS
7   (iii) NUMBER OF SEQUENCES: 165
8   (iv) CORRESPONDENCE ADDRESS:
9         (A) ADDRESSEE: MEDLEN & CARROLL
10        (B) STREET: 220 MONTGOMERY STREET, SUITE 2200
11        (C) CITY: SAN FRANCISCO
12        (D) STATE: CALIFORNIA
13        (E) COUNTRY: UNITED STATES OF AMERICA
14        (F) ZIP: 94104
15   (v) COMPUTER READABLE FORM:
16        (A) MEDIUM TYPE: Floppy disk
17        (B) COMPUTER: IBM PC compatible
18        (C) OPERATING SYSTEM: PC-DOS/MS-DOS
19        (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
20   (vi) CURRENT APPLICATION DATA:
C--> 21        (A) APPLICATION NUMBER: US/09/941,095
C--> 22        (B) FILING DATE: 28-Aug-2001
W--> 27        (C) CLASSIFICATION:
24   (vii) PRIOR APPLICATION DATA:
25        (A) APPLICATION NUMBER: US/09/941,193
26        (B) FILING DATE: 28-Aug-2001
28   (viii) ATTORNEY/AGENT INFORMATION:
29        (A) NAME: CARROLL, PETER G.
30        (B) REGISTRATION NUMBER: 32,837
31        (C) REFERENCE/DOCKET NUMBER: FORS-01756
32   (ix) TELECOMMUNICATION INFORMATION:
33        (A) TELEPHONE: (415) 705-8410
34        (B) TELEFAX: (415) 397-8338
35 (2) INFORMATION FOR SEQ ID NO: 1:
36   (i) SEQUENCE CHARACTERISTICS:
37        (A) LENGTH: 2506 base pairs
38        (B) TYPE: nucleic acid
39        (C) STRANDEDNESS: double
40        (D) TOPOLOGY: linear
41   (ii) MOLECULE TYPE: DNA (genomic)
42   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
43   ATGAGGGGGA TGCTGCCCT CTTTGAGCCC AAGGGCCGGG TCCTCCTGGT GGACGGCCAC

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60

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44	CACCTGGCCT	ACCGCACCTT	CCACGCCCTG	AAGGGCCTCA	CCACCAGCCG	GGGGGAGCCG	120
45	GTGCAGGCGG	TCTACGGCTT	CGCCAAGAGC	CTCCTCAAGG	CCCTCAAGGA	GGACGGGGAC	180
46	GCGGTGATCG	TGGTCTTTGA	CGCCAAGGCC	CCCTCCTTCC	GCCACGAGGC	CTACGGGGGG	240
47	TACAAGGCGG	GCCGGGCCCC	CACGCCGGAG	GACTTTCCCC	GGCAACTCGC	CCTCATCAAG	300
48	GAGCTGGTGG	ACCTCCTGGG	GCTGGCGCGC	CTCGAGGTCC	CGGGCTACGA	GGCGGACGAC	360
49	GTCCTGGCCA	GCCTGGCCAA	GAAGGCGGAA	AAGGAGGGCT	ACGAGGTCCG	CATCCTCACC	420
50	GCCGACAAAG	ACCTTTACCA	GCTCCTTTCC	GACCGCATCC	ACGTCCTCCA	CCCCGAGGGG	480
51	TACCTCATCA	CCCCGGCCTG	GCTTTGGGAA	AAGTACGGCC	TGAGGCCCCA	CCAGTGGGCC	540
52	GACTACCGGG	CCCTGACCGG	GGACGAGTCC	GACAACCTTC	CCGGGGTCAA	GGGCATCGGG	600
53	GAGAAGACGG	CGAGGAAGCT	TCTGGAGGAG	TGGGGGAGCC	TGGAAGCCCT	CCTCAAGAAC	660
54	CTGGACCGGC	TGAAGCCCGC	CATCCGGGAG	AAGATCCTGG	CCCACATGGA	CGATCTGAAG	720
55	CTCTCCTGGG	ACCTGGCCAA	GGTGCGCACC	GACCTGCCCC	TGGAGGTGGA	CTTCGCCAAA	780
56	AGGCGGGAGC	CCGACCGGGA	GAGGCTTAGG	GCCTTTCTGG	AGAGGCTTGA	GTTTGGCAGC	840
57	CTCCTCCACG	AGTTCGGCCT	TCTGGAAAGC	CCCAAGGCCC	TGGAGGAGGC	CCCCTGCCCC	900
58	CCGCCGGAAG	GGGCCTTCGT	GGGCTTTGTG	CTTTCCCCGA	AGGAGCCCAT	GTGGGCGCGAT	960
59	CTTCTGGCCC	TGGCCGCCGC	CAGGGGGGGC	CGGGTCCACC	GGGCCCCCGA	GCCTTATAAA	1020
60	GCCCTCAGGG	ACCTGAAGGA	GGCGCGGGGG	CTTCTCGCCA	AAGACCTGAG	CGTTCTGGCC	1080
61	CTGAGGGAAG	GCCTTGCCCT	CCCGCCCGGC	GACGACCCCA	TGCTCCTCGC	CTACCTCCTG	1140
62	GACCCTTCCA	ACACCACCCC	CGAGGGGGTG	GCCCGGCGCT	ACGGCGGGGA	GTGGACGGAG	1200
63	GAGGCGGGGG	AGCGGGCCGC	CCTTTCCGAG	AGGCTCTTCG	CCAACCTGTG	GGGGAGGCTT	1260
64	GAGGGGGAGG	AGAGGCTCCT	TTGGCTTTAC	CGGGAGGTGG	AGAGGCCCCC	TTCCGCTGTC	1320
65	CTGGCCCCAC	TGGAGGCCAC	GGGGGTGCGC	CTGGACGTGG	CCTATCTCAG	GGCCTTGTCC	1380
66	CTGGAGGTGG	CCGAGGAGAT	CGCCCCGCTC	GAGGCCGAGG	TCTTCCGCCT	GGCCGGCCAC	1440
67	CCCTTCAACC	TCAACTCCCC	GGACCAGCTG	GAAAGGGTCC	TCTTTGACGA	GCTAGGGCTT	1500
68	CCCGCCATCG	GCAAGACGGA	GAAGACCGGC	AAGCGCTCCA	CCAGCGCCGC	CGTCCTGGAG	1560
69	GCCCTCCGCG	AGGCCCCACC	CATCGTGGAG	AAGATCCTGC	AGTACCGGGA	GCTCACCAAG	1620
70	CTGAAGAGCA	CCTACATTGA	CCCCTTGCCG	GACCTCATCC	ACCCAGGAC	GGGCCGCCTC	1680
71	CACACCCGCT	TCAACCAGAC	GGCCACGGCC	ACGGGCAGGC	TAAGTAGCTC	CGATCCCAAC	1740
72	CTCCAGAACA	TCCCCGTCCG	CACCCCGCTT	GGGCAGAGGA	TCCGCCGGGC	CTTCATCGCC	1800
73	GAGGAGGGGT	GGCTATTGGT	GGCCCTGGAC	TATAGCCAGA	TAGAGCTCAG	GGTGCTGGCC	1860
74	CACCTCTCCG	GCGACGAGAA	CCTGATCCGG	GTCTTCCAGG	AGGGGCGGGA	CATCCACACG	1920
75	GAGACCGCCA	GCTGGATGTT	CGGCGTCCCC	CGGGAGGCCG	TGGACCCCTT	GATGCGCCGG	1980
76	GCGGCCAAGA	CCATCAACTT	CGGGGTCTCT	TACGGCATGT	CGGCCACCG	CCTCTCCAG	2040
77	GAGCTAGCCA	TCCCTTACGA	GGAGGCCAG	GCCTTCATTG	AGCGCTACTT	TCAGAGCTTC	2100
78	CCCAAGGTGC	GGGCTGGAT	TGAGAAGACC	CTGGAGGAGG	GCAGGAGGCG	GGGGTACGTG	2160
79	GAGACCTCT	TCGGCCGCCG	CCGCTACGTG	CCAGACCTAG	AGGCCCGGGT	GAAGAGCGTG	2220
80	CGGGAGGCGG	CCGAGCGCAT	GGCCTTCAAC	ATGCCCGTCC	AGGGCACCGC	CGCCGACCTC	2280
81	ATGAAGCTGG	CTATGGTGAA	GCTCTTCCCC	AGGCTGGAGG	AAATGGGGGC	CAGGATGCTC	2340
82	CTTCAGGTCC	ACGACGAGCT	GGTCCTCGAG	GCCCCAAAAG	AGAGGGCGGA	GGCCGTGGCC	2400
83	CGGCTGGCCA	AGGAGGTCAT	GGAGGGGGTG	TATCCCCTGG	CCGTGCCCCC	GGAGGTGGAG	2460
84	GTGGGGATAG	GGGAGGACTG	GCTCTCCGCC	AAGGAGTGAT	ACCACC		2506

86 (2) INFORMATION FOR SEQ ID NO: 2:

87 (i) SEQUENCE CHARACTERISTICS:

88 (A) LENGTH: 2496 base pairs

89 (B) TYPE: nucleic acid

90 (C) STRANDEDNESS: double

91 (D) TOPOLOGY: linear

92 (ii) MOLECULE TYPE: DNA (genomic)

93 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

RAW SEQUENCE LISTING

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Input Set : N:\Crif3\RULE60\09941095.raw

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94	ATGGCGATGC TTCCCTCTT TGAGCCCAA GGC CGCGTGC TCCTGGTGA CGGCCACCAC	60
95	CTGGCCTACC GCACCTTCTT TGCCCTCAAG GGCCTCACCA CCAGCCGCGG CGAACCCGTT	120
96	CAGGCGGTCT ACGGCTTCGC CAAAAGCCTC CTCAAGGCC TGAAGGAGGA CGGGGACGTG	180
97	GTGGTGGTGG TCTTTGACGC CAAGGCCCC TCCTTCCGCC ACGAGGCCTA CGAGGCCTAC	240
98	AAGGCGGGCC GGGCCCCCAC CCCGGAGGAC TTTCCCCGGC AGCTGGCCCT CATCAAGGAG	300
99	TTGGTGGACC TCCTAGGCC TGTGCGGCTG GAGGTTCCCG GCTTTGAGGC GGACGACGTG	360
100	CTGGCCACCC TGGCCAAGCG GGC GGAAGAG GAGGGGTACG AGGTGCGCAT CCTCACTGCC	420
101	GACCGCGACC TCTACCAGCT CCTTTCGGAG CGCATCGCCA TCCTCCACCC TGAGGGGTAC	480
102	CTGATCACCC CGGCGTGGCT TTACGAGAA TACGGCCTGC GCCCGGAGCA GTGGGTGGAC	540
103	TACCGGGCCC TGGCGGGGGA CCCCTCGGAT AACATCCCCG GGTGGAAGGG CATCGGGGAG	600
104	AAGACCGCCC AGAGGCTCAT CCGCGAGTGG GGGAGCCTGG AAAACCTCTT CCAGCACCTG	660
105	GACCAGGTGA AGCCCTCCTT GCGGGAGAAG CTCCAGGCGG GCATGGAGGC CCTGGCCCTT	720
106	TCCCGAAGC TTTCCAGGT GCACACTGAC CTGCCCTGG AGGTGGACTT CGGGAGGCGC	780
107	CGCACACCA ACTGGAGGG TCTGCGGGCT TTTTGGAGC GGTGGAGTT TGAAGCCTC	840
108	CTCCACGAGT TCGGCCTCCT GGAGGGGCGG AAGGCGGCAG AGGAGGCCCT CTGGCCCCCT	900
109	CCGGAAGGGG CTTTTTTGGG CTTTTCTTT TCCCGTCCCG AGCCCATGTG GGCCGAGCTT	960
110	CTGGCCCTGG CTGGGGCGTG GGAGGGGCGC CTCCATCGGG CACAAGACCC CCTTAGGGGC	1020
111	CTGAGGGACC TTAAGGGGGT GCGGGGAATC CTGGCCAAGG ACCTGGCGGT TTTGGCCCTG	1080
112	CGGGAGGGCC TGGACCTCTT CCCAGAGGAC GACCCCATGC TCCTGGCCTA CCTTCTGGAC	1140
113	CCCTCCAACA CCACCCCTGA GGGGTGGCC CGGCGTTACG GGGGGAGTG GACGGAGGAT	1200
114	GCGGGGAGA GGGCCCTCCT GGCAGAGCGC CTCTTCAGA CCCTAAAGGA GCGCCTTAAG	1260
115	GGAGAAGAAC GCCTGCTTTG GCTTTACGAG GAGGTGGAGA AGCCGCTTTC CCGGTGTTG	1320
116	GCCCGGATGG AGGCCACGGG GGTCCGGCTG GACGTGGCCT ACCTCCAGGC CCTCTCCCTG	1380
117	GAGGTGGAGG CGGAGGTGCG CCAGCTGGAG GAGGAGGTCT TCCGCCTGGC CGGCCACCCC	1440
118	TTCAACCTCA ACTCCGCGA CCAGCTGGAG CGGGTGCTCT TTGACGAGCT GGGCCTGCCT	1500
119	GCCATCGGCA AGACGGAGAA GACGGGGAAA CGCTCCACCA GCGCTGCCGT GCTGGAGGCC	1560
120	GTGCGAGAGG CCCACCCCAT CGTGGACCGC ATCCTGCAGT ACCGGGAGCT CACCAAGCTC	1620
121	AAGAACCTT ACATAGACCC CTGCCCCGCC CTGGTCCACC CCAAGACCGG CCGGCTCCAC	1680
122	ACCGCTTCA ACCAGCGGC CACCGCCAG GGCAGGCTTT CCAGCTCCGA CCCAACCTG	1740
123	CAGAACATCC CCGTGCGCAC CCTCTGGGC CAGCGCATCC GCGGAGCCTT CGTGGCCGAG	1800
124	GAGGGCTGGG TGCTGGTGGT CTTGGACTAC AGCCAGATTG AGCTTCGGGT CCTGGCCAC	1860
125	CTCTCCGGGG ACGAGAACCT GATCCGGGTC TTTCAGGAGG GGAGGGACAT CCACACCCAG	1920
126	ACCGCCAGCT GGATGTTCCG CGTTTCCCC GAAGGGGTAG ACCCTCTGAT GCGCCGGGCG	1980
127	GCCAAGACCA TCAACTTCGG GGTGCTCTAC GGCATGTCCG CCCACCGCCT CTCCGGGGAG	2040
128	CTTTCCATCC CCTACGAGGA GCGGTGGCC TTCATTGAGC GCTACTTCCA GAGCTACCCC	2100
129	AAGGTGCGGG CCTGGATTGA GGGGACCCTC GAGGAGGGCC GCCGGCGGGG GTATGTGGAG	2160
130	ACCCTCTTCG GCCGCCGCG CTATGTGCCC GACCTCAACG CCCGGGTGAA GAGCGTGCGC	2220
131	GAGGCGGCGG AGCGCATGGC CTTCAACATG CCGGTCCAGG GCACCGCCGC CGACCTCATG	2280
132	AAGCTGGCCA TGGTGC GGCT TTTCCCCCGG CTTCAGGAAC TGGGGGCGAG GATGCTTTTG	2340
133	CAGGTGCACG ACGAGCTGGT CCTCGAGGCC CCAAGGACC GGGCGGAGAG GGTAGCCGCT	2400
134	TTGGCCAAGG AGGTCATGGA GGGGTCTGG CCCCTGCAGG TGCCCCCTGGA GGTGGAGGTG	2460
135	GGCCTGGGGG AGGACTGGCT CTCCGCCAAG GAGTAG	2496

137 (2) INFORMATION FOR SEQ ID NO: 3:

138 (i) SEQUENCE CHARACTERISTICS:

139 (A) LENGTH: 2504 base pairs

140 (B) TYPE: nucleic acid

141 (C) STRANDEDNESS: double

142 (D) TOPOLOGY: linear

143 (ii) MOLECULE TYPE: DNA (genomic)

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Input Set : N:\Crif3\RULE60\09941095.raw

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144 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
145 ATGGAGGCGA TGCTTCCGCT CTTTGAACCC AAAGGCCGGG TCCTCCTGGT GGACGGCCAC 60
146 CACCTGGCCT ACCGCACCTT CTTGCGCCCTG AAGGGCCTCA CCACGAGCCG GGGCGAACCG 120
147 GTGCAGGCGG TCTACGGCTT CGCCAAGAGC CTCTCAAGG CCCTGAAGGA GGACGGGTAC 180
148 AAGGCCGTCT TCGTGGTCTT TGACGCCAAG GCCCCTCCT TCCGCCACGA GGCTACGAG 240
149 GCCTACAAGG CGGGGAGGGC CCCGACCCCC GAGGACTTCC CCCGGCAGCT CGCCCTCATC 300
150 AAGGAGCTGG TGGACCTCCT GGGGTTTACC CGCTCGAGG TCCCCGGCTA CGAGGCGGAC 360
151 GACGTTCTCG CCACCTGGC CAAGAAGGCG GAAAAGGAGG GGTACGAGGT GCGCATCCTC 420
152 ACCGCCGACC GCGACCTCTA CCAACTCGTC TCCGACCGCG TCGCCGTCTT CCACCCCGAG 480
153 GGCCACCTCA TCACCCCGGA GTGGCTTTGG GAGAAGTACG GCCTCAGGCC GGAGCAGTGG 540
154 GTGGACTTCC GCGCCCTCGT GGGGGACCC TCCGACAACC TCCCCGGGGT CAAGGGCATC 600
155 GGGGAGAAGA CGGCCCTCAA GCTCCTCAAG GAGTGGGGAA GCCTGGAAAA CCTCCTCAAG 660
156 AACCTGGACC CCGTAAAGCC AGAAACGCT GCGGAGAAGA TCAAGGCCCA CTTGGAAGAC 720
157 CTCAGGCTCT CTTGGAGCT CTCCCGGGTG CGCACCGACC TCCCCCTGGA GCTGGACCTC 780
158 GCCCAGGGGC GGGAGCCCGA CCGGGAGGGG CTTAGGGCCT TCCTGGAGAG GCTGGAGTTC 840
159 GGCAGCTTCC TCCACGAGTT CGGCCTCCTG GAGGCCCCCG CCCCCCTGGA GGAGGCCCCC 900
160 TGGCCCCCGC CGGAAGGGGC CTTCTGTTGG TTCGTCCTCT CCCGCCCGCA GCCCATGTGG 960
161 GCGGAGCTTA AAGCCCTGGC CGCCTGCAGG GACGGCCGGG TGCACCGGGC AGCAGACCCC 1020
162 TTGGCGGGGC TAAAGGACCT CAAGGAGGTC CGGGGCCTCC TCGCCAAGGA CCTCGCCGTC 1080
163 TTGGCCTCGA GGGAGGGGCT AGACCTCGTG CCCGGGGACG ACCCATGCT CCTCGCCTAC 1140
164 CTCTGGACC CCTCCAACAC CACCCCGAG GGGGTGGCGC GCGCTACGG GGGGGAGTGG 1200
165 ACGGAGGACG CCGCCACCG GGCCCTCCTC TCGGAGAGGC TCCATCGGAA CCTCCTTAAG 1260
166 CGCCTCGAGG GGGAGGAGAA GCTCCTTTGG CTCTACCACG AGGTGGAAAA GCCCCTCTCC 1320
167 CGGGTCTTGG CCCACATGGA GGCCACCGGG GTACGGCTGG ACGTGGCCTA CCTTCAGGCC 1380
168 CTTTCCCTGG AGCTTGCGGA GGAGATCCGC CGCCTCGAGG AGGAGGTCTT CCGCTTGGCG 1440
169 GGCCACCCCT TCAACCTCAA CTCCCGGGAC CAGCTGGAAA GGGTGCTCTT TGACGAGCTT 1500
170 AGGCTTCCCG CCTTGGGGAA GACGCAAAAG ACAGGCAAGC GCTCCACCAG CGCCGCGGTG 1560
171 CTGGAGGCCC TACGGGAGGC CCACCCCATC GTGGAGAAGA TCCTCCAGCA CCGGGAGCTC 1620
172 ACCAAGCTCA AGAACCTA CGTGACCCC CTCCCAAGCC TCGTCCACCC GAGGACGGGC 1680
173 CGCCTCCACA CCCGCTTCAA CCAGACGGCC ACGGCCACGG GGAGGCTTAG TAGCTCCGAC 1740
174 CCCAACCTGC AGAACATCCC CGTCCGCACC CCCTTGGGCC AGAGGATCCG CCGGGCCTTC 1800
175 GTGGCCGAGG CGGGTTGGGC GTTGGTGGCC CTGGACTATA GCCAGATAGA GCTCCGCGTC 1860
176 CTCGCCACC TCTCCGGGGA CGAAAACCTG ATCAGGGTCT TCCAGGAGGG GAAGGACATC 1920
177 CACACCAGA CCGCAAGCTG GATGTTCCGC GTCCCCCGG AGGCCGTGGA CCCCTGATG 1980
178 CGCCGGGCGG CCAAGACGGT GAACTTCGGC GTCCTCTACG GCATGTCCGC CCATAGGCTC 2040
179 TCCAGGAGC TTGCCATCCC CTACGAGGAG GCGGTGGCCT TTATAGAGGC TACTTCCAAA 2100
180 GCTTCCCCAA GGTGCGGGCC TGGATAGAAA AGACCCTGGA GGAGGGGAGG AAGCGGGGCT 2160
181 ACGTGGAAAC CCTCTTCGGA AGAAGGCGCT ACGTGCCCGA CCTCAACGCC CGGGTGAAGA 2220
182 GCGTCAGGGA GGCCGCGGAG CGCATGGCCT TCAACATGCC CGTCCAGGGC ACCGCCGCCG 2280
183 ACCTCATGAA GCTCGCCATG GTGAAGCTCT TCCCCGCCT CCGGGAGATG GGGGCCCCGA 2340
184 TGCTCCTCCA GGTCCACGAC GAGCTCCTCC TGGAGGCCCC CCAAGCGCGG GCCGAGGAGG 2400
185 TGGCGGCTTT GGCCAAGGAG GCCATGGAGA AGGCCTATCC CCTCGCCGTG CCCCTGGAGG 2460
186 TGGAGGTGGG GATGGGGGAG GACTGGCTTT CCGCCAAGGG TTAG 2504

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188 (2) INFORMATION FOR SEQ ID NO: 4:

189 (i) SEQUENCE CHARACTERISTICS:

- 190 (A) LENGTH: 832 amino acids
- 191 (B) TYPE: amino acid
- 192 (C) STRANDEDNESS: single
- 193 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING

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194 (ii) MOLECULE TYPE: protein
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
196 Met Arg Gly Met Leu Pro Leu Phe Glu Pro Lys Gly Arg Val Leu Leu
197 1 5 10 15
198 Val Asp Gly His His Leu Ala Tyr Arg Thr Phe His Ala Leu Lys Gly
199 20 25 30
200 Leu Thr Thr Ser Arg Gly Glu Pro Val Gln Ala Val Tyr Gly Phe Ala
201 35 40 45
202 Lys Ser Leu Leu Lys Ala Leu Lys Glu Asp Gly Asp Ala Val Ile Val
203 50 55 60
204 Val Phe Asp Ala Lys Ala Pro Ser Phe Arg His Glu Ala Tyr Gly Gly
205 65 70 75 80
206 Tyr Lys Ala Gly Arg Ala Pro Thr Pro Glu Asp Phe Pro Arg Gln Leu
207 85 90 95
208 Ala Leu Ile Lys Glu Leu Val Asp Leu Leu Gly Leu Ala Arg Leu Glu
209 100 105 110
210 Val Pro Gly Tyr Glu Ala Asp Asp Val Leu Ala Ser Leu Ala Lys Lys
211 115 120 125
212 Ala Glu Lys Glu Gly Tyr Glu Val Arg Ile Leu Thr Ala Asp Lys Asp
213 130 135 140
214 Leu Tyr Gln Leu Leu Ser Asp Arg Ile His Val Leu His Pro Glu Gly
215 145 150 155 160
216 Tyr Leu Ile Thr Pro Ala Trp Leu Trp Glu Lys Tyr Gly Leu Arg Pro
217 165 170 175
218 Asp Gln Trp Ala Asp Tyr Arg Ala Leu Thr Gly Asp Glu Ser Asp Asn
219 180 185 190
220 Leu Pro Gly Val Lys Gly Ile Gly Glu Lys Thr Ala Arg Lys Leu Leu
221 195 200 205
222 Glu Glu Trp Gly Ser Leu Glu Ala Leu Leu Lys Asn Leu Asp Arg Leu
223 210 215 220
224 Lys Pro Ala Ile Arg Glu Lys Ile Leu Ala His Met Asp Asp Leu Lys
225 225 230 235 240
226 Leu Ser Trp Asp Leu Ala Lys Val Arg Thr Asp Leu Pro Leu Glu Val
227 245 250 255
228 Asp Phe Ala Lys Arg Arg Glu Pro Asp Arg Glu Arg Leu Arg Ala Phe
229 260 265 270
230 Leu Glu Arg Leu Glu Phe Gly Ser Leu Leu His Glu Phe Gly Leu Leu
231 275 280 285
232 Glu Ser Pro Lys Ala Leu Glu Glu Ala Pro Trp Pro Pro Pro Glu Gly
233 290 295 300
234 Ala Phe Val Gly Phe Val Leu Ser Arg Lys Glu Pro Met Trp Ala Asp
235 305 310 315 320
236 Leu Leu Ala Leu Ala Ala Arg Gly Gly Arg Val His Arg Ala Pro
237 325 330 335
238 Glu Pro Tyr Lys Ala Leu Arg Asp Leu Lys Glu Ala Arg Gly Leu Leu
239 340 345 350
240 Ala Lys Asp Leu Ser Val Leu Ala Leu Arg Glu Gly Leu Gly Leu Pro
241 355 360 365
242 Pro Gly Asp Asp Pro Met Leu Leu Ala Tyr Leu Leu Asp Pro Ser Asn

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 11/29/2005

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Input Set : N:\Cr3\RULE60\09941095.raw

Output Set: N:\CRF4\11292005\I941095.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 4,5,181,182,190,366,617,628,685,714,722,738,784,1022,1029

Seq#:7; N Pos. 1038,1053,1098,1105,1206,1227,1244,1251,1252,1253,1350,1380

Seq#:7; N Pos. 1497,1530,1569,1572,1641,1653,1655,1770,1812,2319,2346,2396

Seq#:8; Xaa Pos.2,63,109,186,205,209,227,228,233,240,243,244,247,260,290

Seq#:8; Xaa Pos.329,336,340,368,414,417,418,431,551,605,773,794,798,823,833

VERIFICATION SUMMARY

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PATENT APPLICATION: US/09/941,095

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Input Set : N:\CrF3\RULE60\09941095.raw

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L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:27 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:48
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:96
L:744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:176
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:192
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:208
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:224
L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:240
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:256
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:288
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:320
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:336
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:352
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:400
L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:416
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:544
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:592
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:768
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:784
L:824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:816
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:832